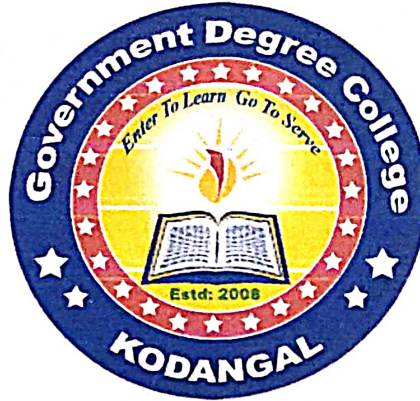


# “Library Management System”



Student study project submitted to the department of  
Computer Science & Computer Application's

**GOVERNAMENT DEGREE COLLEGE**

(Affiliated to Palamuru university)

In partial fulfillment of the requirement  
for the study project of

By

Sri varsha, Bhavani, Samreen, Ayesha, Irfan

Under The Supervision of

**Mrs. K. Srilatha**

Lecturer in Computer Science & Computer Application's

Department of Computer Science & Computer Application's

**GOVERNAMENT DEGREE COLLEGE**

Kodangal, Vikarabad (Dist)-509338 (T.S)

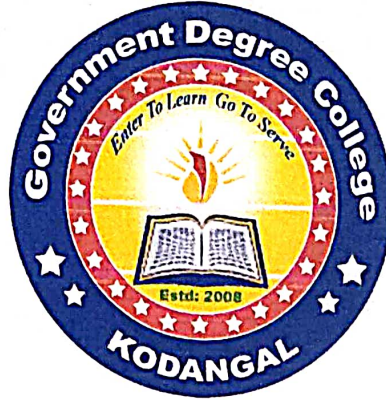
**2021-2022**

DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

**GOVERNMENT DEGREE COLLEGE**

KODANGAL, VIKARABAD (DIST)-509338 (T.S.)

(Affiliated to P.U.)



**CERTIFICATE**

This is to Certify that “**Library management System** ” is being submitted by SRI VARSHA ( 210330164051006) BHAVANI (210330164051032) SAMREEN (210330164051028) AYESHA (210330164051003) IRFAN ( 210330164051018) in partial fulfillment of the requirement of the student study project in “**Computer Science**” during the year 2017-2018 project work carried out by them under my guidance. The results presented in this project have been verified and are found to be satisfactory.

**Supervisor**

**Mrs. K. Srilatha**

**Lecturer**

**Dept. Of Computer Science & Computer Application's**

# **LIBRARY MANAGEMENT SYSTEM**

## **INTRODUCTION OF LIBRARY MANAGEMENT SYSTEM**

Library management system is all about organizing, managing the library and library-oriented tasks. It also involves maintaining the database of entering new books and the record of books that have been retrieved or issued, with their respective dates. The main aim of this project is providing an easy to handle and automated library management system. This project also provides features and interface for maintaining librarian's records, student's history of issue and fines.

The owner can easily update, delete and insert data in the database with this project. The following are some of the features provided by this project:

The issue of books by online mode.

Columns provided to search book online.

Requests to the librarian can be sent to provide new books in the column.

Login portal for a student for security purpose of the library.

Homepage for the student which has different buttons to navigate to pages containing the date of issue, date of return, fine charges etc.

Columns for teachers to get book issued if desired.

Requests column for teachers to ask for the introduction of new or essential books in the library.

Maintaining records of the librarian and other library staff.

Feedback page to be viewed and monitored by the college authority, to which student

The teacher can mention any misbehave or feedback for the library.

## **PROPOSED SYSTEM OF LIBRARY MANAGEMENT SYSTEM**

The project Library Management System aims at developing a fully functional computerized system to maintain all the day to day activity of a library

This project has many features which such as the facility of user login and teachers login. Also on the top of all this, there is an admin who will be managing the entire application's authorization and authentication, not any intruder can login and modify the data, as a login for admin is also available.

The various modules of this system areas:

**User Module:**

This module is further divided into various sub-modules describing the user in a better way:

New user register:

To sign up a new user to this system

Student Login:

So as to confirm that only an authenticated user is using the project.

Search book:

The user can search book based on book id, book name, or by author name.

Issue Book:

To help the user get the required books issued.

Return Book:

To return the book before the last date without fine, or after the specified time duration with a late fine.

**Admin Module:**

It is to be operated by the admin with unique id and password. The admin is the person who decides authentication and authorization for all the different users of the application. It further can be subdivided as:

Register user

Issue Book

Maintain books in a stack, means record the availability at regular time interval.

**Librarian:**

Includes all the library staff who are required to enter the records in the system and keep an eye on the various activities like the issue of the book, the return of the book, non-availability of books etc. through the developed system.

# SYSTEM DESIGN OF LIBRARY MANAGEMENT SYSTEM

Hardware requirement of library management system:

Operating system: Windows 7 (or above can be used) since it is stable

Hard disks: 40GB

RAM: 1GB as it will give faster performance throughput.

Software requirement of library management system:

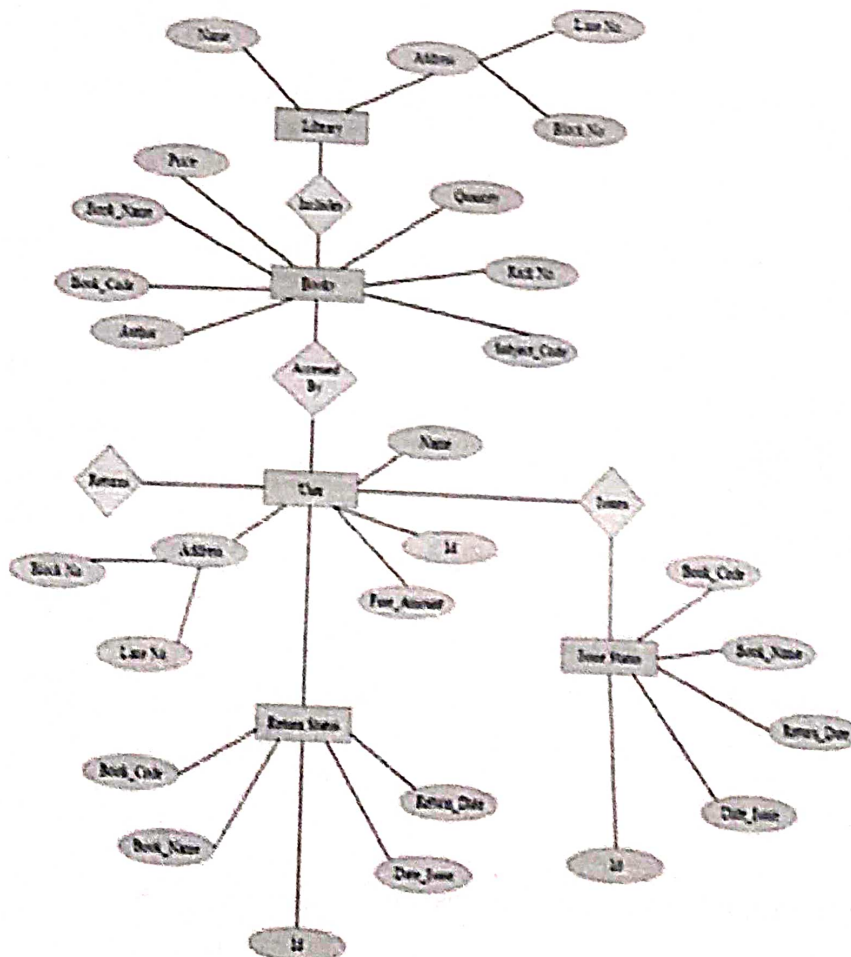
Java language

Net beans IDE 7.0.1 or eclipse neon

MySQL

PhpMyAdmin: As it can also easily handle server-side queries if any as well as compatible with tools for website designing.

## ER DIAGRAM OF LIBRARY MANAGEMENT SYSTEM



The ER diagram provides the description of all the physical objects involved in the application like the library, books, user etc. It also briefs the operations to be done on these entities. This will minimize all the redundancy and attempt to store all the required information in as small a space as possible. The various entities are described as: